

**SAFETY DATA SHEET (EC 1907/2006)****Dynasylan® DAMO**

Material no.

Specification

VA-Nr

116485

Version

Revision date

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**degussa.**

Move victims into fresh air.

If symptoms persist, consult a physician for treatment.

**Skin contact**

Wash off immediately with plenty of water.

**Eye contact**

Rinse thoroughly with plenty of water keeping eyelid open.

In case of persistent discomfort: Consult an ophthalmologist.

**Ingestion**

Have the mouth rinsed with water.

Consult a physician immediately.

**Notes to physician**

after absorbing large amounts of substance:

Liberation of reaction products (Methanol) can lead to symptoms of poisoning.

Possible signs of poisoning:

daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance.

Symptoms upon increasing intoxication: dysopia, loss of eyesight.

Treatment:

Immediate gastric lavage. Antidote treatment, correction of acid-base balance.

Detection of substance (Methanol) possible in:

Blood

Antidote treatment: ethanol.

Allergic reactions cannot be excluded.

Treatment of allergic reaction if necessary.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

foam, water spray, CO2, dry powder

**Specific hazards during fire fighting**

Hazardous fumes in fires, specific to the product:  
nitrogen oxides (NOx)

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment.

Avoid contact with skin and eyes.

**Environmental precautions**

Do not allow substance to enter soil, bodies of water or sewage canals.

**Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder:

sand (for damming up), sawdust, universal absorbent

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**7. HANDLING AND STORAGE****Handling****Safe handling advice**

Application, processing: Provide good ventilation or extraction.

**Advice on protection against fire and explosion**

Normal measures for preventive fire protection.

**Storage****Requirements for storage areas and containers**Keep containers tightly closed in a cool, well-ventilated place.  
Protect from moisture.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters****Engineering measures**

Provide for good ventilation if vapours/aerosols are formed.

Application, processing: Provide good ventilation or extraction.

**Personal protective equipment****Respiratory protection**In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded:  
use respiratory equipment with suitable filter or wear a self contained respiratory apparatus**Hand protection**

Glove material

for example, butyl-rubber

Material thickness

0,5 mm

Break through time

&gt;= 480 min

Glove material

for example, Fluorinated rubber (Viton)

Material thickness

0,4 mm

Break through time

&gt;= 480 min

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials.

Remember that the useful time per day of a chemical protection glove may be much shorter than the permeation time determined according to EN 374 due to the many different influential factors involved (e.g. temperature).

**Eye protection**

close-fitting protective goggles (e.g. closed goggles)

**Hygiene measures**

Avoid contact with skin and eyes.

Do not wear contaminated clothing.

Do not inhale vapours / aerosols.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form

Colour

Odour

liquid

colourless

amine-like

**Safety data**

pH

10

(10 g/l)

(20 °C)

Boiling point/range

140 °C

(20 hPa)

Method:

DIN 51 356

Flash point

136 °C

Method:

DIN 51758

Ignition temperature

300 °C

Method:

DIN 51 794

Vapour pressure

1,5 hPa

(20 °C)

Density

1,03 g/cm<sup>3</sup>

(20 °C)

Method:

DIN 51757

Water solubility

not miscible

decomposition by hydrolysis

Viscosity, dynamic

6 mPas

(20 °C)

Method:

DIN 53 016

**10. STABILITY AND REACTIVITY**

Materials to avoid

acids, water

Hazardous decomposition products

Methanol in case of hydrolysis.

Hazardous reactions

Exothermic reaction with: acids

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity

LD50 rat: 7684 mg/kg

(literature value)

RTECS

possibly harmful

(methanol in case of hydrolysis)

Skin irritation

irritating

Lit.(1)

Eye irritation

irritating

Ut.(1)

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Sensitization markedly sensitising  
Method: (Magnusson-Kligman test)  
Lit.(1)

Further information Lit.(1)  
Own study

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Biodegradability Result: 50 %  
Method: EC 92/69  
(literature value)

### Behaviour in environmental compartments

#### Ecotoxicity effects

Toxicity to fish LC50 Brachydanio rerio: 597 mg/l / 96 h  
Method: EC 92/69  
LC0 Brachydanio rerio: 344 mg/l / 96 h  
Method: EC 92/69  
Toxicity to daphnia EC50 Daphnia magna: 81 mg/l / 48 h  
Method: EC 92/69  
Toxicity to algae EC50 scenedesmus subspicatus: 126 mg/l / 72 h  
Method: EC 92/69  
NOEC scenedesmus subspicatus: 20 mg/l / 72 h  
Method: EC 92/69  
Toxicity to bacteria EC 10 Pseudomonas putida: 25 mg/l / 16 h  
Method: DIN 38412 part 8

### Further information on ecology

Further Information Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment,

## 13. DISPOSAL CONSIDERATIONS

### Product

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.  
No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

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**14. TRANSPORT INFORMATION**

**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION**

**Labelling according to EC Directives**

Statutory basis/list

Symbol(s)

R-phrases(s)

S-phrases(s)

According to Directive 67/548/EEC:

Xi

Irritant

R36/38

R43

R52/53

Irritating to eyes and skin.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S24

S37/39

Avoid contact with skin.

Wear suitable gloves and eye/face protection.

**National legislation**

**16. OTHER INFORMATION**

**Risk phrase (R phrase) texts**

• **N-(3-(trimethoxysilyl)propyl)ethylenediamine**

R36/38

R43

R52/53

Irritating to eyes and skin.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Further Information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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